

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

0590
0466

#2



BEST AVAILABLE COPY

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/050,227

DATE: 04/26/2002

TIME: 14:29:25

Input Set : N:\Crf3\RULE60\10050227.raw

Output Set: N:\CRF3\04262002\J050227.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Browne, Michael J.
 6 Murphy, Kay E.
 7 Chapman, Conrad G.
 8 Clinkenbeard, Helen E.
 9 Young, Peter R.
 10 Shatzman, Allan R.

12 (ii) TITLE OF INVENTION: Novel Compounds

14 (iii) NUMBER OF SEQUENCES: 21

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: SmithKline Beecham Corporation
 18 (B) STREET: 709 Swedeland Road, P.O. Box 1539
 19 (C) CITY: King of Prussia
 20 (D) STATE: Pennsylvania
 21 (E) COUNTRY: USA
 22 (F) ZIP: 19406

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk
 26 (B) COMPUTER: IBM PC compatible
 27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

30 (vi) CURRENT APPLICATION DATA:

C--> 31 (A) APPLICATION NUMBER: US/10/050,227
 C--> 32 (B) FILING DATE: 16-Jan-2002
 33 (C) CLASSIFICATION:

35 (vii) PRIOR APPLICATION DATA:

36 (A) APPLICATION NUMBER: US/09/200,324
 37 (B) FILING DATE:
 38 (A) APPLICATION NUMBER: US 08/468,296
 39 (B) FILING DATE: 06-JUN-1995

41 (viii) ATTORNEY/AGENT INFORMATION:

42 (A) NAME: Sutton, Jeffrey A.
 43 (B) REGISTRATION NUMBER: 34,028
 44 (C) REFERENCE/DOCKET NUMBER: P31005C2

46 (ix) TELECOMMUNICATION INFORMATION:
 47 (A) TELEPHONE: 610-270-5024
 48 (B) TELEFAX: 610-270-5090

51 (2) INFORMATION FOR SEQ ID NO: 1:

55 (i) SEQUENCE CHARACTERISTICS:
 56 (A) LENGTH: 6367 base pairs
 57 (B) TYPE: nucleic acid-
 58 (C) STRANDEDNESS: double

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/050,227

DATE: 04/26/2002
TIME: 14:29:25

Input Set : N:\CrF3\RULE60\10050227.raw
Output Set: N:\CRF3\04262002\J050227.raw

59	(D) TOPOLOGY: circular	
65	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
67	GACGTCGACG GATCGGGAGA TCGGGGATCG ATCCGTCGAC GTACGACTAG TTATTAATAG	60
69	TAATCAATT A CGGGGTCTATT AGTTCATAGC CCATATATGG AGTTCGCGT TACATAACTT	120
71	ACGGTAAATG GCCCGCCTGG CTGACCGCCC AACGACCCCC CCCATTGAC GTCAATAATG	180
73	ACGTATGTC CCATAGAAC GCCAATAGGG ACTTTCCATT GACGTCAATG GGTGGACTAT	240
75	TTACGGTAAA CTGCCCACTT GGCACTACAT CAAGTGTATC ATATGCCAAG TACGCCCT	300
77	ATTGACGTCA ATGACGGTAA ATGGCCCGCC TGGCATTATG CCCAGTACAT GACCTTATGG	360
79	GACTTTCTA CTTGGCAGTA CATCTACGTA TTAGTCATCG CTATTACCAT GGTGATGCGG	420
81	TTTGGCAGT ACATCAATGG GCGTGGATAG CGGTTGACT CACGGGGATT TCCAAGTCTC	480
83	CACCCCATTG ACGTCAATGG GAGTTGTT TGGCACAAA ATCAACGGGA CTTTCAAAA	540
85	TGTCGTAACA ACTCCGCCCC ATTGACGCAA ATGGCCGTA GGCCTGTACG GTGGGAGGTC	600
87	TATATAAGCA GAGCTGGTA CGTGAACCGT CAGATCGCCT GGAGACGCCA TCGAATTGG	660
89	TTACCTGCAG ATATCAAGCT AATTGGTAC CGAGCCAAA TCGGCCGACA AAACTCACAC	720
91	ATGCCCACCG TGCCCAGCAC CTGAACCTCT GGGGGACCG TCAGTCTTCC TCTTCCCCC	780
93	AAAACCCAAG GACACCCCTCA TGATCTCCCG GACCCCTGAG GTCACATGCG TGGTGGTGG	840
95	CGTAGGCCAC GAAGACCTG AGGTCAAGTT CAACTGGTAC GTGGACGGCG TGGAGGTGCA	900
97	TAATGCCAAG ACAAAGCCGC GGGAGGAGCA GTACAACAGC ACGTACCGGG TGGTCAGCGT	960
99	CCTCACCGTC CTGACCCAGG ACTGGCTGAA TGGCAAGGAG TACAAGTGCA AGGTCTCAA	1020
101	CAAAGCCCTC CCAGCCCCCA TCGAGAAAAC CATCTCAAA GCCAAAGGGC AGCCCCGAGA	1080
103	ACCACAGGTG TACACCCCTGC CCCCCATCCCG GGATGAGCTG ACCAAGAACC AGGTCAGCCT	1140
105	GACCTGCCTG GTCAAAGGCT TCTATCCAG CGACATCGCC GTGGAGTGGG AGAGCAATGG	1200
107	GCAGCCGGAG AACAACATACA AGACCCACGCC TCCCGTCTG GACTCCGACG GCTCCTTCTT	1260
109	CCTCTACAGC AAGCTCACCG TGGACAAGAG CAGGTGGCAG CAGGGGAACG TCTCTCATG	1320
111	CTCCGTGATG CATGAGGCTC TGCACAACCA CTACACGCAG AAGAGCCTCT CCCTGTCTCC	1380
113	GGGTAAATGA GTGTAGTCTA GAGCTCGCTG ATCAGCCTCG ACTGTGCCTT CTAGTTGCCA	1440
115	GCCATCTGTT GTTTGCCCT CCCCCGTGCC TTCCCTGACC CTGGAAGGTG CCACCTCCAC	1500
117	TGTCTTTCC TAATAAAATG AGGAAATTGC ATCGCATTGT CTGAGTAGGT GTCATTCTAT	1560
119	TCTGGGGGGT GGGGTGGGGC AGGACAGCAA GGGGGAGGAT TGGGAAGACA ATAGCAGGCA	1620
121	TGCTGGGGAT GCGGTGGCT CTATGGAACC AGCTGGGCT CGAGGGGGGA TCTCCGATC	1680
123	CCCAGCTTTG CTTCTCAATT TCTTATTGTC ATAATGAGAA AAAAAGGAAA ATTAATTTA	1740
125	ACACCAATTG AGTAGTTGAT TGAGCAAATG CGTTGCCAAA AAGGATGCTT TAGAGACAGT	1800
127	GTTCTCTGCA CAGATAAGGA CAAACATTAT TCAGAGGGAG TACCCAGAGC TGAGACTCCT	1860
129	AAGCCAGTGA GTGGCACAGC ATTCTAGGGA GAAATATGCT TGTCTACACC GAAGCCTGAT	1920
131	TCCGTAGAGC CACACCTTGG TAAGGGCCAA TCTGCTCACA CAGGATAGAG AGGGCAGGAG	1980
133	CCAGGGCAGA GCATATAAGG TGAGGTAGGA TCAGTTGCTC CTCACATTG CTTCTGACAT	2040
135	AGTTGTGTT GGAGCTTGGGA TAGCTGGAC AGCTCAGGGC TGCGATTGCG CGCCAAACTT	2100
137	GACGGCAATC CTAGCGTGAA GGCTGGTAGG ATTTTATCCC CGCTGCCATC ATGTTCGAC	2160
139	CATTGAACTG CATCGTCGCC GTGTCCAAA ATATGGGGAT TGGCAAGAAC GGAGACCTAC	2220
141	CCTGGCCTCC GCTCAGGAAC GAGTTCAAGT ACTTCAAAG AATGACCACA ACCTCTCAG	2280
143	TGGAAGGTAA ACAGAATCTG GTGATTATGG GTAGGAAAAC CTGGTCTCC ATTCTGAGA	2340
145	AGAATCGACC TTTAAAGGAC AGAATTAATA TAGTTCTCAG TAGAGAACCTC AAAGAACAC	2400
147	CACGAGGAGC TCATTCTCTT GCCAAAGTT TGGATGATGC CTTAAGACTT ATTGAACAAAC	2460
149	CGGAATTGGC AAGTAAAGTA GACATGGTT GGATAGTCGG AGGCAGTTCT GTTACCAAGG	2520
151	AAGCCATGAA TCAACCAGGC CACCTTAGAC TCTTGTGAC AAGGATCATG CAGGAATTG	2580
153	AAAGTGCACAC GTTTTCCCA GAAATTGATT TGGGAAATA TAAACTCTC CCAGAACACC	2640
155	CAGGCGCTCT CTCTGAGGTC CAGGAGGAAA AAGGCATCAA GTATAAGTTT GAAGTCTACG	2700
157	AGAAGAAAGA CTAACAGGAA GATGCTTCA AGTTCTCTGC TCCCCTCTA AAGCTATGCA	2760
159	TTTTTATAAG ACCATGCTAG CTTGAACCTG TTTATTGAG CTTATAATGG TTACAAATAA	2820

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/050,227

DATE: 04/26/2002

TIME: 14:29:25

Input Set : N:\CrF3\RULE60\10050227.raw

Output Set: N:\CRF3\04262002\J050227.raw

161	AGCAATAGCA	TCACAAATTT	CACAAATAAA	GCATTTTTT	CACTGCATTC	TAGTTGTGGT	2880
163	TTGTCCAAAC	TCATCAATGT	ATCTTATCAT	GTCTGGATCA	ACGATAGCTT	ATCTGTGGC	2940
165	GATGCCAAGC	ACCTGGATGC	TGTTGGTTTC	CTGCTACTGA	TTTAGAAGCC	ATTGCCCCC	3000
167	TGAGTGGGGC	TTGGGAGCAC	TAACCTTCTC	TTTCAAAGGA	AGCAATGCAG	AAAGAAAAGC	3060
169	ATACAAAGTA	TAAGCTGCCA	TGTAATAATG	GAAGAAGATA	AGGTTGTATG	AATTAGATTT	3120
171	ACATACTTCT	GAATTGAAAC	TAACACACCTT	TAAATTCTTA	AATATATAAC	ACATTTCAT	3180
173	TGAAAGTATT	TTACATAAGT	AACTCAGATA	CATAGAAAAC	AAAGCTAATG	ATAGGTGTCC	3240
175	CTAAAAGTTC	ATTTTATTAAAT	TCTACAAATG	ATGAGCTGGC	CATCAAATT	CCAGCTCAAT	3300
177	TCTTCAACGA	ATTAGAAAAGA	GCAATCTGCA	AACTCATCTG	GAATAACAAA	AAACCTAGGA	3360
179	TAGCAAAAAC	TCTTCTCAAG	GATAAAAGAA	CCTCTGGTGG	AATCACCATG	CCTGACCTAA	3420
181	AGCTGTACTA	CAGAGCAATT	GTGATAAAAAA	CTGCATGGTA	CTGATATAGA	AACGGACAAG	3480
183	TAGACCAATG	GAATAGAAC	CACACACCTA	TGGTCACTTG	ATCTTCACAA	AGAGAGCTAA	3540
185	AACCATCCAC	TGGAAAAAAAG	ACAGCATT	CAACAAATGG	TGCTGGCACA	ACTGGTGGTT	3600
187	ATCATGGAGA	AGAATGTGAA	TTGATCCATT	CCAATCTCCT	TGTACTAAGG	TCAAATCTAA	3660
189	GTGGATCAAG	GAACCTCCACA	AAAAACCAGA	GACACTGAA	CTTATAGAGG	AGAAAGTGGG	3720
191	AAAAAGCCTC	GAAGATATGG	GCACAGGGGA	AAAATTCTG	AATAGAACAG	CAATGGCTTG	3780
193	TGCTGTAAAGA	TCGAGAATTG	ACAAATGGGA	CCTCATGAA	CTCCAAAGCT	ATCGGATCAA	3840
195	TTCCTCCAAA	AAAGCCTCCT	CACTACTTCT	GGAATAGCTC	AGAGGCCAG	GCAGCCTCGG	3900
197	CCTCTGCATA	AATAAAAAAA	ATTAGTCAGC	CATGCATGGG	GCGGAGAATG	GGCGGAAC	3960
199	GGCGGAGTTA	GGGGCGGGAT	GGGCGGAGTT	AGGGCGGGGA	CTATGGTTGC	TGACTAATTG	4020
201	AGATGCATGC	TTTGCATACT	TCTGCCTGCT	GGGGAGCCTG	GGGACTTTCC	ACACCTGGTT	4080
203	GCTGACTAAAT	TGAGATGCAT	GCTTGCATA	CTTCTGCCCTG	CTGGGGAGCC	TGGGGACTTT	4140
205	CCACACCCCTA	ACTGACACAC	ATTCCACAGA	ATTAATTCCC	GATCCCGTCG	ACCTCGAGAG	4200
207	CTTGGCGTAA	TCATGGTCAT	AGCTGTTCC	TGTGTGAAAT	TGTTATCCGC	TCACAATTCC	4260
209	ACACAACATA	CGAGCCGGAA	GCATAAAGTG	TAAAGCCTGG	GGTGCCTAAT	GAGTGAGCTA	4320
211	ACTCACATTA	ATTGCGTTGC	GCTCACTGCC	CGCTTCCAG	TCGGGAAACC	TGTCGTGCCA	4380
213	GCTGCATTAA	TGAATCGGCC	AACGCGCGGG	GAGAGGCGGT	TTGCGTATTG	GGCGCTCTTC	4440
215	CGCTTCCTCG	CTCACTGACT	CGCTGCGCTC	GGTCGTTCCG	CTGCGCGAG	CGGTATCAGC	4500
217	TCACTCAAAG	GCGGTAATAC	GGTTATCCAC	AGAACATCAGG	GATAACGCAG	GAAAGAACAT	4560
219	GTGAGCAAAA	GGCCAGCAAA	AGGCCAGGAA	CCGTAAGGAA	GCCGCGTGC	TGGCGTTTTT	4620
221	CCATAGGCTC	CGCCCCCCTG	ACGAGCATCA	AAAAATCGA	CGCTCAAGTC	AGAGGTGGCG	4680
223	AAACCCGACA	GGACTATAAA	GATACCAGGC	GTTCCTCCCT	GGAAGCTCCC	TCGTGCGCTC	4740
225	TCCTGTTCCG	ACCCCTGCCG	TTACCGGATA	CCTGTCCGCC	TTTCTCCCT	CGGGAAAGCGT	4800
227	GGCGCTTTCT	CAATGCTCAC	GCTGTAGGTA	TCTCAGTCG	GTGTAGGTCG	TTCGCTCAA	4860
229	GCTGGGCTGT	GTGCACGAAC	CCCCCGTTCA	GCCCGACCGC	TGCGCCTTAT	CCGTTAACTA	4920
231	TCGTCTTGAG	TCCAACCCGG	TAAGACACGA	CTTATCGCCA	CTGGCAGCAG	CCACTGGTAA	4980
233	CAGGATTAGC	AGAGCCGAGGT	ATGTAGGCGG	TGCTACAGAG	TTCTTGAAGT	GTTGGCCTAA	5040
235	CTACGGCTAC	ACTAGAAAGGA	CAGTATTG	TATCTGCCT	CTGCTGAAGC	CAGTTACCTT	5100
237	CGGAAAAAGA	GTTGGTAGCT	CTTGATCCGG	CAAACAAACC	ACCGCTGGTA	GCGGTGGTT	5160
239	TTTTGTTGC	AAGCAGCAGA	TTACCGCGAG	AAAAAAAGGA	TCTCAAGAAG	ATCCTTTGAT	5220
241	CTTTTCTACG	GGGTCTGACG	CTCAGTGGAA	CGAAACTCA	CGTTAAGGGA	TTTGGTCAT	5280
243	GAGATTATCA	AAAAGGATCT	TCACCTAGAT	CCTTTAAAT	AAAAATGAA	GTTTTAAATC	5340
245	AATCTAAAGT	ATATATGAGT	AAACCTGGTC	TGACAGTTAC	CAATGCTAA	TCAGTGAGGC	5400
247	ACCTATCTCA	GCGATCTGTC	TATTCGTTC	ATCCATAGTT	GCCTGACTCC	CCGTCGTGTA	5460
249	GATAACTACG	ATACGGGAGG	GCTTACCATC	TGGCCCCAGT	GCTGCAATGA	TACCGCGAGA	5520
251	CCCACGCTCA	CCGGCTCCAG	ATTTATCAGC	AATAAACCCAG	CCAGCCGGAA	GGGGCGAGCG	5580
253	CAGAAGTGGT	CCTGCAACTT	TATCCGCC	CATCCAGTCT	ATTAATTGTT	GCGGGAAAGC	5640
255	TAGAGTAAGT	AGTTGCCAG	TTAATAGTT	GCGCAACGTT	GTTGCCATTG	CTACAGGCAT	5700
257	CGTGGTGTCA	CGCTCGTCGT	TTGGTATGGC	TTCATTCAAGC	TCCGGTTCCC	AACGATCAAG	5760

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/050,227

DATE: 04/26/2002
TIME: 14:29:25

Input Set : N:\CrF3\RULE60\10050227.raw
Output Set: N:\CRF3\04262002\J050227.raw

259	GCGAGTTACA	TGATCCCCCA	TGTTGTGCAA	AAAAGCGGTT	AGCTCCTTCG	GTCCTCCGAT	5820
261	CGTTGTCAGA	AGTAAGTTGG	CCGCAGTGT	ATCACTCATG	GTTATGGCAG	CACTGCATAA	5880
263	TTCTCTTACT	GTCATGCCAT	CCGTAAGATG	CTTTCTGTG	ACTGGTGAGT	ACTCAACCAA	5940
265	GTCATTCTGA	GAATAGTGTA	TGCGGCGACC	GAGTGCTCT	TGCCCAGCGT	CAATACGGGA	6000
267	TAATACCGCG	CCACATAGCA	GAACTTAAA	AGTGCTCATC	ATTGGAAAAC	GTTCTTCGGG	6060
269	GCGAAACCTC	TCAAGGATCT	TACCGCTGTT	GAGATCCAGT	TCGATGTAAC	CCACTCGTGC	6120
271	ACCCAACCTGA	TCTTCAGCAT	CTTTTACTTT	CACCAGCGTT	TCTGGGTGAG	CAAAAACAGG	6180
273	AAGGCAAAAT	GCGCAAAAAA	AGGGAATAAG	GGCGACACGG	AAATGTTGAA	TACTCATACT	6240
275	CTTCCTTTTT	CAATATTATT	GAAGCATTAA	TCAGGGTTAT	TGTCTCATGA	GCGGATACAT	6300
277	ATTGGAATGT	ATTAGAAAAA	ATAAACAAAT	AGGGGTTCCG	CGCACATTTC	CCCGAAAAGT	6360
279	GCCACCT						6367
281	(2) INFORMATION FOR SEQ ID NO: 2:						
283	(i) SEQUENCE CHARACTERISTICS:						
284	(A) LENGTH: 6926 base pairs						
285	(B) TYPE: nucleic acid						
286	(C) STRANDEDNESS: double						
287	(D) TOPOLOGY: circular						
293	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:						
295	GACGTCGACG	GATCGGGAGA	TCGGGGATCG	ATCCGTCGAC	GTACGACTAG	TTATTAATAG	60
297	TAATCAATTA	CGGGGTCATT	AGTTCATAGC	CCATATATGG	AGTTCCCGGT	TACATAACTT	120
299	ACGGTAAATG	GCCCCCCTGG	CTGACCGCCC	AACGACCCCC	GCCCCATTGAC	GTCAATAATG	180
301	ACGTATGTT	CCATAGTAAC	GCCAATAGGG	ACTTCCATT	GACGTCAATG	GGTGGACTAT	240
303	TTACGGTAAA	CTGCCCACTT	GGCAGTACAT	CAAGTGTATC	ATATGCCAAG	TACGCCCCCT	300
305	ATTGACGTCA	ATGACGGTAA	ATGGCCCGCC	TGGCATTATG	CCCAGTACAT	GACCTTATGG	360
307	GACTTCCCTA	CTTGGCAGTA	CATCTACGTA	TTAGTCATCG	CTATTACCAT	GGTGATGCGG	420
309	TTTTGGCAGT	ACATCAATGG	GGCTGGATAG	CGGTTTGACT	CACGGGGATT	TCCAAGTCTC	480
311	CACCCCATTG	ACGTCAATGG	GAGTTGTTT	TGGCACCAAA	ATCAACGGGA	CTTCCAAAAA	540
313	TGTCGTAACA	ACTCCGCCCC	ATTGACGCAA	ATGGCGGTA	GGCGTGTACG	GTGGGAGGTC	600
315	TATATAAGCA	GAGCTGGTAA	CGTGAACCGT	CAGATCGCCT	GGAGACGCCA	TCGAATTGG	660
317	TTACCTGCA	ATGGGCTGCA	GBAATTCCGC	ATTGCAGAGA	TAATTGTATT	TAAGTGCCTA	720
319	GCTCGATACA	ATAAACGCCA	TTTGACCATT	CACCACATTG	GTGTGCACCT	CCAAGCTTAC	780
321	CTGCCATGGG	TCTCACCTCC	CAACTGCTTC	CCCCCTGTGTT	CTTCCTGCTA	GCATGTGCCG	840
323	GCAACTTTGT	CCACGGACAC	AAGTGCAGATA	TCACCTTACA	GGAGATCATC	AAAACTTGA	900
325	ACAGCCTCAC	AGAGCAGAAG	ACTCTGTGCA	CCGAGTTGAC	CGTAACAGAC	ATCTTGCTG	960
327	CCTCCAAGAA	CACAACGTAG	AAGGAAACCT	TCTGCAGGGC	TGCGACTGTG	CTCCGGCAGT	1020
329	TCTACAGCCA	CCATGAGAAG	GACACTCGCT	GCCTGGGTGC	GACTGCACAG	CAGTCCACA	1080
331	GGCACAAGCA	GCTGATCCGA	TTCCTGAAAC	GGCTCGACAG	GAACCTCTGG	GGCTGGCGG	1140
333	GCTTGAATT	CTGTCCTGTG	AAGGAAGCCA	ACCAGAGTAC	GTTGGAAAAC	TTCTTGGAAA	1200
335	GGCTAAAGAC	GATCATGAGA	GAGAAAGACT	CAAAGTGTTC	GAGCGGTACC	GAGCCCAAAT	1260
337	CGGCCGACAA	AACTCACACA	TGCCCAACCGT	GCCCAGCACC	TGAACCTCTG	GGGGGACCGT	1320
339	CAGTCTTCCT	CTTCCCCCCTA	AAACCCAAGG	ACACCCCTCAT	GATCTCCCGG	ACCCCTGAGG	1380
341	TCACATGCGT	GGTGGTGGAC	GTGAGCCACG	AAGACCCCTGA	GGTCAAGTTC	AACTGGTACG	1440
343	TGGACGGCGT	GGAGGTGCAT	AATGCCAAGA	CAAAGCCCGC	GGAGGAGCAG	TACAAACAGCA	1500
345	CGTACCGGGT	GGTCAGCGTC	CTCACCGTCC	TGCACCCAGGA	CTGGCTGAAT	GGCAAGGAGT	1560
347	ACAAGTGCAA	GGTCTCAAC	AAAGCCCTCC	CAGCCCCAT	CGAGAAAACC	ATCTCCAAAG	1620
349	CCAAAGGGCA	GCCCCGAGAA	CCACAGGTGT	ACACCCCTGCC	CCCACCCGG	GATGAGCTGA	1680
351	CCAAGAACCA	GGTCAGCCTG	ACCTGCCTGG	TCAAAGGCTT	CTATCCCAGC	GACATGCCG	1740
353	TGGAGTGGGA	GAGCAATGGG	CAGCCGGAGA	ACAACATACAA	GACCACGCC	CCCGTGCTGG	1800
355	ACTCCGACGG	CTCCTCTTC	CTCTACAGCA	AGCTCACCGT	GGACAAGAGC	AGGTGGCAGC	1860

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/050,227

DATE: 04/26/2002
TIME: 14:29:25

Input Set : N:\Crf3\RULE60\10050227.raw
Output Set: N:\CRF3\04262002\J050227.raw

357	AGGGGAACGT	CTTCTCATGC	TCCGTGATGC	ATGAGGCTCT	GCACAACCAC	TACACGCAGA	1920
359	AGAGCCTCTC	CCTGCTCTCCG	GGTAAATGAG	TGTAGTCTAG	AGCTCGCTGA	TCAGCCTCGA	1980
361	CTGTGCCCTTC	TAGTTGCCAG	CCATCTGTG	TTTGCCCCCTC	CCCCGTGCCCT	TCCTTGACCC	2040
363	TGGAAGGTGC	CACTCCCCT	GTCCTTCCCT	AATAAAATGA	GGAAATTGCA	TCGCATTGTC	2100
365	TGAGTAGGTG	TCATTCTATT	CTGGGGGGTG	GGGTGGGGCA	GGACAGCAAG	GGGGAGGATT	2160
367	GGGAAGACAA	TAGCAGGCAT	GCTGGGGATG	CGGTGGGCTC	TATGGAACCA	GCTGGGGCTC	2220
369	GAGGGGGGAT	CTCCCAGATCC	CCAGCTTGC	TTCTCAATT	CTTATTGCA	TAATGAGAAA	2280
371	AAAAGGAAAA	TTAATTAA	CACCAATTCA	GTAGTTGATT	GAGCAAATGC	GTTGCCAAAA	2340
373	AGGATGCTTT	AGAGACAGTG	TTCTCTGCAC	AGATAAGGAC	AAACATTATT	CAGAGGGAGT	2400
375	ACCCAGAGCT	GAGACTCCTA	AGCCAGTGAG	TGGCACAGCA	TTCTAGGGAG	AAATATGCTT	2460
377	GTCATCACCG	AAGCCTGATT	CCGTAGAGCC	ACACCTTGGT	AAGGGCCAAT	CTGCTCACAC	2520
379	AGGATAGAGA	GGGCAGGAGC	CAGGGCAGAG	CATATAAGGT	GAGGTAGGAT	CAGTTGCTCC	2580
381	TCACATTTGC	TTCTGACATA	GTGTTGTTGG	GAGCTTGGAT	AGCTTGGACA	GCTCAGGGCT	2640
383	GCGATTTCGC	GCCAAACTTG	ACGGCAATCC	TAGCGTGAAG	GCTGGTAGGA	TTTATCCCC	2700
385	GCTGCCATCA	TGGTCGACC	ATTGAACCTGC	ATCGTCGCCG	TGTCCCAAA	TATGGGGATT	2760
387	GGCAAGAACG	GAGACCTACC	CTGGCCTCCG	CTCAGGAACG	AGTTCAAGTA	CTTCAAAGA	2820
389	ATGACCACAA	CCTCTCAGT	GGAAAGGTAAA	CAGAATCTGG	TGATTATGGG	TAGGAAAACC	2880
391	TGGTTCTCCA	TTCCTGAGAA	GAATCGACCT	TTAAAGGACA	GAATTAATAT	AGTCTCAGT	2940
393	AGAGAACTCA	AAGAACCAAC	ACGAGGAGCT	CATTTCTTG	CCAAAAGTTT	GGATGATGCC	3000
395	TTAAGACTTA	TTGAACAAACC	GGAAATTGGCA	AGTAAAGTAG	ACATGGTTG	GATAGTCGGA	3060
397	GGCAGTTCTG	TTTACCAAGGA	AGCCATGAAT	CAACCAGGCC	ACCTTAGACT	CTTGTGACA	3120
399	AGGATCATGC	AGGAATTGAA	AACTGACACG	TTTTTCCCAG	AAATTGATTT	GGGAAATAT	3180
401	AAACTTCTCC	CAGAACATCCC	AGGCGTCCTC	TCTGAGGTCC	AGGAGGAAAA	AGGCATCAAG	3240
403	TATAAGTTTG	AACTCTACGA	GAAGAAAGAC	TAACAGGAAG	ATGCTTCAA	GTTCTCTGCT	3300
405	CCCCTCTAA	AGCTATGCAT	TTTATAAGA	CCATGCTAGC	TTGAACCTGT	TTATTGCAGC	3360
407	TTATAATGGT	TACAATAAA	GCAATAGCAT	CACAAATTTC	ACAAATAAAG	CATTTTTTC	3420
409	ACTGCATTCT	AGTTGTGGTT	TGTCCAAACT	CATCAATGTA	TCTTATCATG	TCTGGATCAA	3480
411	CGATAGCTTA	TCTGTGGCG	ATGCCAAGCA	CCTGGATGCT	GTTGGTTCC	TGCTACTGAT	3540
413	TTAGAAGCCA	TTTCCCCCT	GAGTGGGCT	TGGGAGCACT	AACTTCTCT	TTCAAAGGAA	3600
415	GCAATGCAGA	AAGAAAAGCA	TACAAAGTAT	AAGCTGCCAT	GTAATAATGG	AAGAAGATAA	3660
417	GGTTGTATGA	ATTAGATTTA	CATACTCTG	AATTGAAACT	AAACACCTTT	AAATTCTTAA	3720
419	ATATATAACA	CATTTCATAT	GGAAAGTATT	TACATAAGTA	ACTCAGATAC	ATAGAAAACA	3780
421	AAGCTAATGA	TAGGTGTCCC	TTAAAGTTCA	TTTATTAATT	CTACAAATGA	TGAGCTGGCC	3840
423	ATCAAAATTTC	CAGCTCAATT	CTTCAACGAA	TTAGAAAGAG	CAATCTGCAA	ACTCATCTGG	3900
425	AATAACAAAA	AACCTAGGAT	AGCAAAAAC	CTTCTCAAGG	ATAAAAGAAC	CTCTGGTGG	3960
427	ATCACCATGC	CTGACCTAAA	GCTGTACTAC	AGAGCAATTG	TGATAAAAAC	TGCATGGTAC	4020
429	TGATATAGAA	ACGGACAAGT	AGACCAATGG	AATAGAACCC	ACACACCTAT	GGTCACCTGA	4080
431	TCTTCACAA	GAGAGCTAAA	ACCATCCACT	GGAAAAAAGA	CAGCATTTC	AACAAATGGT	4140
433	GCTGGCACAA	CTGGTGGTTA	TCATGGAGAA	GAATGTGAAT	TGATCCATT	CAATCTCCTT	4200
435	GTACTAAGGT	CAAATCTAAG	TGGATCAAGG	AACTCCACAT	AAAACCAAGAG	ACACTGAAAC	4260
437	TTATAGAGGA	GAAAGTGGGG	AAAAGCTCG	AAGATATGGG	CACAGGGAA	AAATTCTGA	4320
439	ATAGAACAGC	AATGGCTGT	GCTGTAAGAT	CGAGAATTGA	CAAATGGGAC	CTCATGAAAC	4380
441	TCCAAAGCTA	TCGGATCAAT	TCCTCCAAA	AAGCTCCTC	ACTACTTCTG	GAATAGCTCA	4440
443	GAGGCCGAGG	CGGCCTCGGC	CTCTGCATAA	ATAAAAAAA	TTAGTCAGCC	ATGCATGGGG	4500
445	CGGAGAATGG	GCGGAACCTGG	GGGGAGTTAG	GGGCGGGATG	GGCGGAGTTA	GGGGCGGGAC	4560
447	TATGGTTGCT	GACTAATTGA	GATGCATGCT	TTGCATACTT	CTGCCTGCTG	GGGAGCCTGG	4620
449	GGACTTCCA	CACCTGGTTG	CTGACTAATT	GAGATGCATG	CTTGCATAC	TTCTGCCTGC	4680
451	TGGGGAGCCT	GGGGACTTTC	CACACCTAA	CTGACACACA	TTCCACAGAA	TTAATTCCCC	4740
453	ATCCCGTCGA	CCTCGAGAGC	TTGGCGTAAT	CATGGTCATA	GCTGTTCC	GTGTGAAATT	4800

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/050,227

DATE: 04/26/2002
TIME: 14:29:26

Input Set : N:\Crf3\RULE60\10050227.raw
Output Set: N:\CRF3\04262002\J050227.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]